

BEST PROGRAMMING ASSIGNMENT

1. What is Logging?:

Def: Logging is the practice of recording events, actions, and information during the execution of a program. It helps developers track the flow of their application, debug issues, and monitor performance.

2. Why Logging is Important:

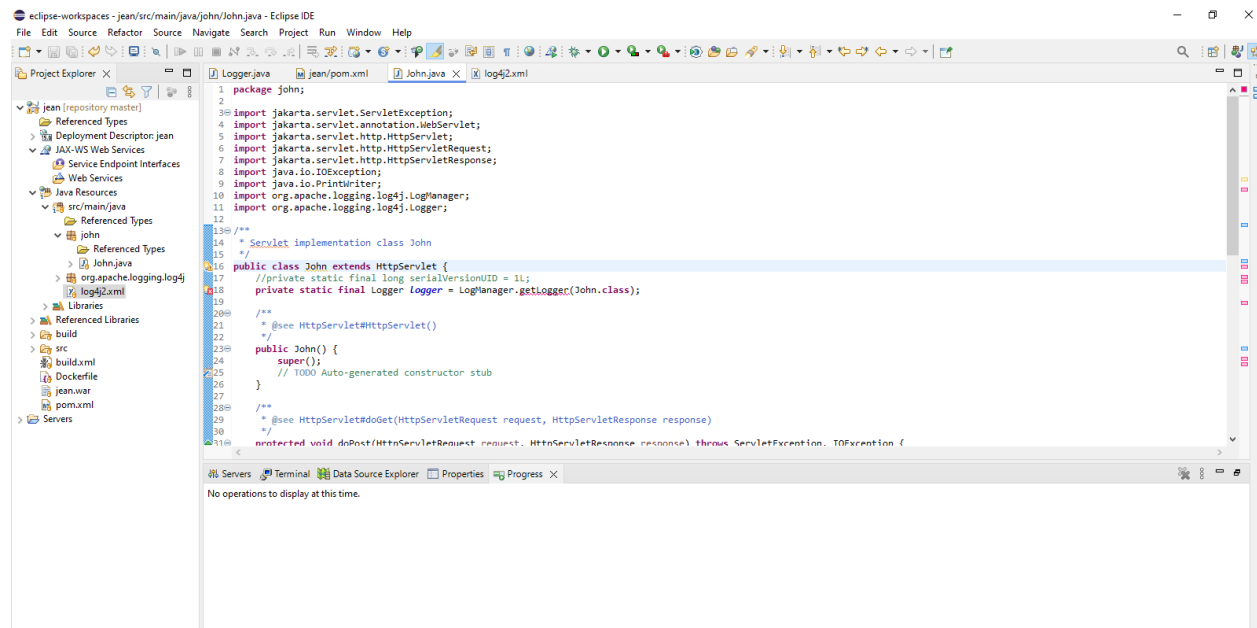
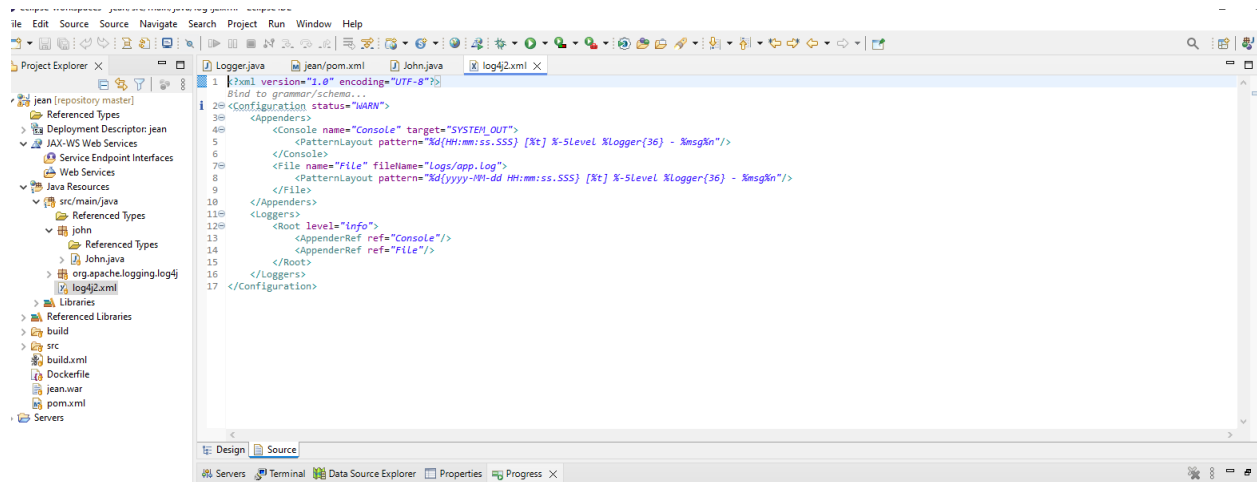
Logging is crucial for several reasons:

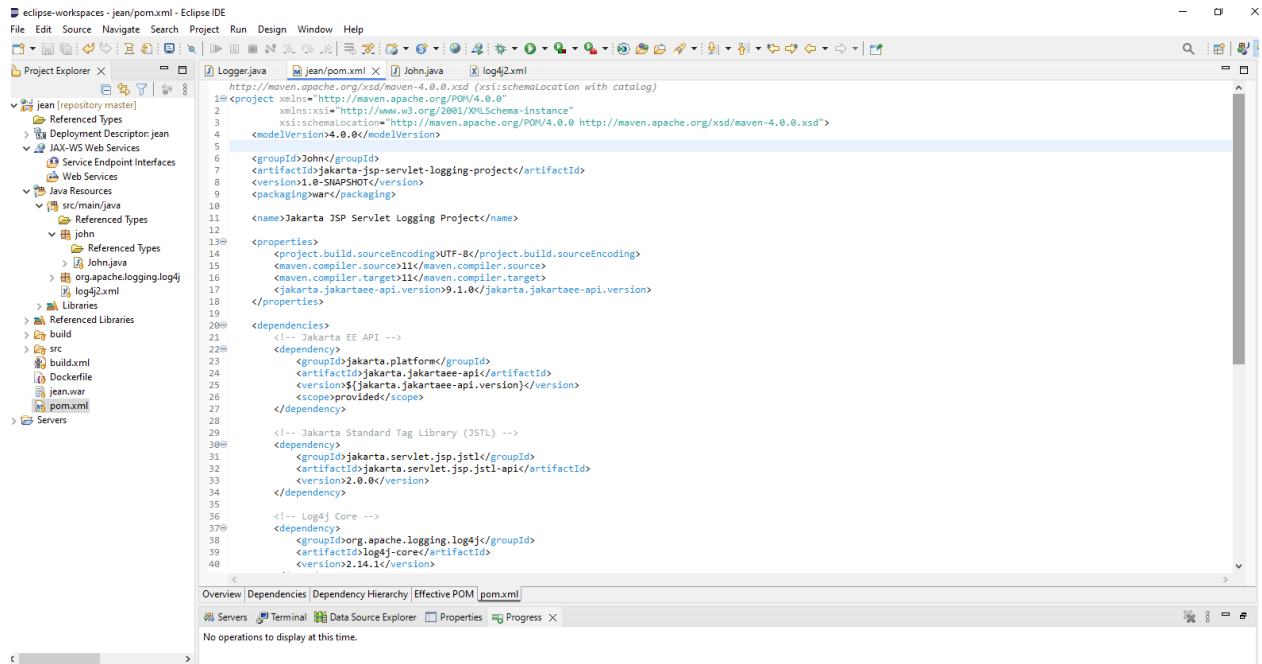
- **Debugging:** It helps identify and fix issues in production environments.
- **Monitoring:** It allows you to track application health and performance.
- **Auditing:** It provides a record of important events for security and compliance.
- **Analytics:** It can be used to gather insights about user behavior and system usage.

3. Understanding Logging Levels:

Common logging levels, from least to most severe:

- **TRACE:** Fine-grained debug information
- **DEBUG:** Detailed information, typically of interest only when diagnosing problems
- **INFO:** General information about application flow
- **WARN:** Potentially harmful situations that might lead to errors
- **ERROR:** Error events that might still allow the application to continue running
- **FATAL:** Severe errors that cause the application to abort

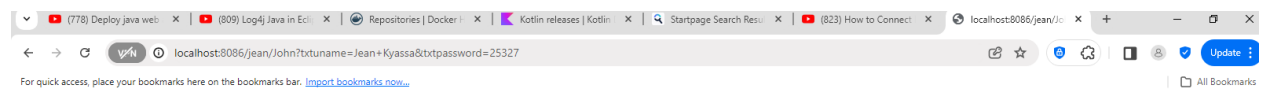




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